

=> index bioscience medicine

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 17:16:47 ON 22 MAY 2006

71 FILES IN THE FILE LIST IN STNINDEX

=> s ((methylene (w) tetrahydrofolate (w) reductase) or metF)

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77 FILE BIOTECHNO  
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5 FILE CIN  
20 FILE CONFSCI  
1 FILE CROPB  
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33 FILE DDFU

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20 FILE DISSABS  
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5 FILE EMBAL  
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149 FILE ESBIODASE  
10 FILE FROSTI  
3 FILE FSTA  
263 FILE GENBANK  
31 FILE IFIPAT  
20 FILE JICST-EPLUS  
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282 FILE MEDLINE  
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190 FILE PASCAL  
1 FILE PHAR  
2 FILE PHIN  
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177 FILE TOXCENTER  
90 FILE USPATFULL  
6 FILE USPAT2  
23 FILE WPIDS  
1 FILE WPIFV  
23 FILE WPINDEX  
1 FILE IPA  
14 FILE NLDB

46 FILES HAVE ONE OR MORE ANSWERS, 71 FILES SEARCHED IN STNINDEX

L1 QUE ((METHYLENE (W) TETRAHYDROFOLATE (W) REDUCTASE) OR METF)

=> d rank

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F2 393 SCISEARCH  
F3 345 CAPLUS  
F4 282 MEDLINE

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F6	251	EMBASE
F7	237	DGENE
F8	190	PASCAL
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F15	51	DRUGU
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F35	4	DDFB
F36	4	DRUGB
F37	3	FSTA
F38	2	AQUASCI
F39	2	CEABA-VTB
F40	2	NTIS
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F44	1	PHAR
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F46	1	IPA

=> file f1-f4, f6, f8-f11, f21

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		3.05	3.26

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FILE 'PASCAL' ENTERED AT 17:19:30 ON 22 MAY 2006

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FILE 'WPIDS' ENTERED AT 17:19:30 ON 22 MAY 2006  
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=> s L1

L2 2386 L1

=> s (gene or sequence or polynucleotide) (s)L2

L3 1105 (GENE OR SEQUENCE OR POLYNUCLEOTIDE) (S) L2

=> s express?(s)L3

L4 120 EXPRESS?(S) L3

=> s ((L-amino (w) acid) or (amino (w) acid) or methionine)(s)L4

3 FILES SEARCHED...

9 FILES SEARCHED...

L5 51 ((L-AMINO (W) ACID) OR (AMINO (W) ACID) OR METHIONINE)(S) L4

=> s (method? or process? or produc?)(s)L5

2 FILES SEARCHED...

6 FILES SEARCHED...

9 FILES SEARCHED...

L6 19 (METHOD? OR PROCESS? OR PRODUC?)(S) L5

=> dup rem L6

PROCESSING COMPLETED FOR L6

L7 13 DUP REM L6 (6 DUPLICATES REMOVED)

=> d ibib abs L7 1-13

L7 ANSWER 1 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2006:80483 USPATFULL

TITLE: Method for the production by fermentation of  
sulphur-containing fine chemicals (metf)

INVENTOR(S): Kroger, Burkhard, Limburgerhof, GERMANY, FEDERAL

REPUBLIC OF

Zelder, Oskar, Speyer, GERMANY, FEDERAL REPUBLIC OF

Klopprogge, Corinna, Mannheim, GERMANY, FEDERAL

REPUBLIC OF

Schroder, Hartwig, Nubloch, GERMANY, FEDERAL REPUBLIC

OF

Hafner, Stefan, Ludwigshafen, GERMANY, FEDERAL REPUBLIC

OF

NUMBER KIND DATE

PATENT INFORMATION: US 2006068476 A1 20060330

APPLICATION INFO.: US 2003-525907 A1 20030826 (10)

WO 2003-EP9451 20030826

20050225 PCT 371 date

NUMBER DATE

PRIORITY INFORMATION: DE 2002-102 20020827

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: CONNOLLY BOVE LODGE & HUTZ, LLP, P O BOX 2207,  
WILMINGTON, DE, 19899, US

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 5242

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to \*\*\*methods\*\*\* for the fermentative  
\*\*\*production\*\*\* of sulfur-containing fine chemicals, in particular L-  
\*\*\*methionine\*\*\*, by using bacteria which \*\*\*express\*\*\* a  
nucleotide \*\*\*sequence\*\*\* coding for a \*\*\*methionine\*\*\* synthase  
( \*\*\*metF\*\*\* ) \*\*\*gene\*\*\*.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2006:73816 USPATFULL

TITLE: Composition and method to optimize and customize  
nutritional supplement formulations by measuring  
genetic and metabolomic contributing factors to disease  
diagnosis, stratification, prognosis, metabolism, and  
therapeutic outcomes

INVENTOR(S): Blum, Kenneth, San Antonio, TX, UNITED STATES  
Meshkin, Brian, Temecula, CA, UNITED STATES  
Downs, Bernard William, Lederach, PA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2006062859 A1 20060323  
APPLICATION INFO.: US 2005-197980 A1 20050805 (11)

NUMBER DATE

PRIORITY INFORMATION: US 2004-599829P 20040805 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Brian Mashkin, Salugen, Inc., Suite 500, 4460 Le Jolla  
Village Drive, San Diego, CA, 92122, US

NUMBER OF CLAIMS: 86

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 6858

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a composition and custom business model  
and methods to measure genetic and metabolomic contributing factors  
affecting disease diagnosis, stratification, and prognosis, as well as  
the metabolism, efficacy and/or toxicity associated with specific  
vitamins, minerals, herbal supplements, homeopathic ingredients, and  
other ingredients for the purposes of customizing a subject's  
nutritional supplements with custom formulations to optimize health  
outcomes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 13 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2006-306105 [32] WPIDS

DOC. NO. CPI: C2006-101704

TITLE: Use of nucleic acid sequences having promoter activity to  
control transcription and expression of genes, useful for  
producing genetically modified microorganisms for  
manufacturing biosynthetic products e.g. lysine,  
methionine and threonine.

DERWENT CLASS: B04 D13 D16 D21

INVENTOR(S): CHOI, J; JEONG, W K; KIM, I K; LEE, H; LIM, S H

PATENT ASSIGNEE(S): (BADI) BASF AG

COUNTRY COUNT: 111

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2006008102 A1 20060126 (200632)\* GE 128

RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT  
KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ  
UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE

DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG  
 KM KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI  
 NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT  
 TZ UA UG US UZ VC VN YU ZA ZM ZW  
 DE 102004035076 A1 20060209 (200632)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2006008102	A1	WO 2005-EP7757	20050716
DE 102004035076	A1	DE 2004-102004035076	20040720

PRIORITY APPLN. INFO: DE 2004-102004035076 20040720

AN 2006-306105 [32] WPIDS

AB WO2006008102 A UPAB: 20060518

NOVELTY - Use of a nucleic acid (I) having promoter activity and comprising:

(A) nucleic acid sequence (S) given in the specification;  
 (B) a sequence derived from (S) through substitution, insertion or deletion of nucleotides and which has at least 90 % nucleic acid identity to (S);

(C) a nucleic acid sequence which is hybridized with (S); or  
 (D) functional equivalent fragments of the sequences given under (A)-(C), for transcription of genes, is new.

DETAILED DESCRIPTION - Use of a nucleic acid (I) having promoter activity and comprising:

(A) the nucleic acid sequence SEQ. ID. No. 1 given in the specification;

(B) a sequence derived from SEQ. ID. No. 1 through substitution, insertion or deletion of nucleotides and which has at least 90 % nucleic acid identity to SEQ. ID. No. 1;

(C) a nucleic acid sequence which is hybridized with SEQ. ID. No. 1 under stringent conditions; or

(D) functional equivalent fragments of the sequences given under (A)-(C), for transcription of genes, is new.

INDEPENDENT CLAIMS are also included for the following:

(1) use of an expression unit (II) comprising (I) and a nucleic acid sequence functionally bound to (I) and which ensures the translation of RNA, to express genes;

(2) nucleic acid having promoter activity and comprising (A)-(C), and (D) provided that SEQ. ID. No. 1 is excluded;

(3) an expression unit containing the nucleic acid in (2), where the nucleic acid has a further nucleic acid sequence functionally bound to it and which ensures the translation of RNA;

(4) modifying the transcription rate of genes in microorganisms compared to the wildtype;

(5) modifying the expression rate of a gene in microorganisms compared to the wild type;

(6) expression cassette;

(7) expression vector containing expression cassette as in (6);

(8) genetically modified microorganism;

(9) genetically modified microorganism containing (II) and functionally coupled genes to be expressed, where the gene is heterologous with respect to (II);

(10) preparation of biosynthetic products by cultivating genetically modified microorganisms as in (8) and (9);

(11) preparation of lysine, methionine and threonine by cultivating genetically modified microorganism as in (8).

USE - For regulating transcription and expression of genes or for modifying transcription rates of genes in microorganisms to give genetically modified microorganisms useful for production of biosynthetic products, preferably fine chemicals for use in pharmaceutical, agricultural, cosmetic, food and feed industries. The biosynthetic compounds include organic acids such as tartaric acid, itaconic acid, diaminopimelic acid, proteinogenic and non-proteinogenic amino acids, purine and pyrimidine bases, nucleosides and nucleotides, lipids, saturated and unsaturated fatty acids (e.g. arachidonic acid), diols (e.g. propane diol and butane diol), carbohydrates (e.g. hyaluronic acid and

trehalose), aromatic compounds (e.g. aromatic amines, vanillin and indigo), vitamins, cofactors and enzymes, particularly L-lysine, L-methionine and L-threonine.  
Dwg.0/2

L7 ANSWER 4 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2005:152003 USPATFULL

TITLE: Gene expression during meningococcus adhesion

INVENTOR(S): Grandi, Guido, Milan, ITALY

PATENT ASSIGNEE(S): Chiron SRL, Siena, ITALY, 1-53100 (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005130917 A1 20050616

APPLICATION INFO.: US 2003-481456 A1 20020619 (10)

WO 2002-IB3072 20020619

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Chiron Corporation, Intellectual Property - R440, P.O. Box 8097, Emeryville, CA, 94662-8097, US

NUMBER OF CLAIMS: 31

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 7 Drawing Page(s)

LINE COUNT: 4001

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The first step in human meningococcal infection involves adhesion to the epithelial cells of the nasopharynx tract. The invention provides various methods and compounds for preventing the attachment of Neisserial cells to epithelial cells and is based on the identification of 347 meningococcal genes which play a role in the adhesion process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2004:198192 CAPLUS

DOCUMENT NUMBER: 140:248217

TITLE: Fermentative production of L-methionine with recombinant *Corynebacterium glutamicum* overexpressing gene *metF*

INVENTOR(S): Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 97 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

DE 10239308 A1 20040311 DE 2002-10239308 20020827

WO 2004024931 A2 20040325 WO 2003-EP9451 20030826

WO 2004024931 A3 20040422

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003258667 A1 20040430 AU 2003-258667 20030826

EP 1537223 A2 20050608 EP 2003-794943 20030826

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003013760 A 20050712 BR 2003-13760 20030826

JP 2005537023 T2 20051208 JP 2004-535172 20030826  
US 2006068476 A1 20060330 US 2005-525907 20050225  
PRIORITY APPLN. INFO.: DE 2002-10239308 A 20020827  
WO 2003-EP9451 W 20030826

AB The invention provides a ~~\*\*\*process\*\*\*~~ for the fermentative  
\*\*\*prodn\*\*\* of L- ~~\*\*\*methionine\*\*\*~~ bacteria, in which for a  
methylenetetrahydrofolate reductase ~~\*\*\*metF\*\*\*~~ ~~\*\*\*gene\*\*\*~~ coding  
nucleotide ~~\*\*\*sequence\*\*\*~~ is ~~\*\*\*expressed\*\*\*~~. Numerous microbial  
sources for the metY gene, including bacteria, yeast and fungi, are  
claimed. In particular, the invention provides a recombinant strain of  
Corynebacterium glutamicum in which one or more of the following genes is  
overexpressed: lysC, gap, pgk, pyc, tpi, metA, metB, metC, glyA, metY,  
metH, serC, serB, cysE, and hom. Addnl. one or more of the following  
genes is attenuated: thrB, ilva, thrC, ddh, pck, pgi, poxB, dapA, dapB,  
lysA.

L7 ANSWER 6 OF 13 PASCAL COPYRIGHT 2006 INIST-CNRS. ALL RIGHTS RESERVED.

on STN DUPLICATE 2  
ACCESSION NUMBER: 2004-0437133 PASCAL  
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TITLE (IN ENGLISH): Hyperhomocysteinemia, low folate and vitamin  
B.sub.1.sub.2 concentrations, and methylene  
tetrahydrofolate reductase mutation in cerebral venous  
thrombosis

AUTHOR: CANTU Carlos; ALONSO Elisa; JARA Aurelio; MARTINEZ  
Leticia; RIOS Camilo; FERNANDEZ Maria De Los Angeles;  
GARCIA Irma; BARINAGARREMENTERIA Fernando

CORPORATE SOURCE: Stroke Clinic, Instituto Nacional de Neurologia y  
Neurocirugia "Manuel Velasco Suarez", Mexico, Mexico;  
Department of Genetics, Instituto Nacional de  
Neurologia y Neurocirugia "Manuel Velasco Suarez",  
Mexico, Mexico; Department of Neurochemistry,  
Instituto Nacional de Neurologia y Neurocirugia  
"Manuel Velasco Suarez", Mexico, Mexico; Department of  
Radioimmunoassay, Instituto Nacional de Neurologia y  
Neurocirugia "Manuel Velasco Suarez", Mexico, Mexico

SOURCE: Stroke : (1970), (2004), 35(8), 1790-1794, 27 refs.  
ISSN: 0039-2499 CODEN: SJCCA7

DOCUMENT TYPE: Journal  
BIBLIOGRAPHIC LEVEL: Analytic  
COUNTRY: United States  
LANGUAGE: English  
AVAILABILITY: INIST-4004, 354000113832890050

AN 2004-0437133 PASCAL

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AB Background and Purpose-Elevated plasma levels of homocysteine are  
associated with an increased risk of deep-vein thrombosis. Through a  
case-control study, we examined the potential association among  
homocysteine, folate and vitamin B.sub.1.sub.2 levels, and the common  
C677 T mutation in the ~~\*\*\*methylene\*\*\*~~ ~~\*\*\*tetrahydrofolate\*\*\*~~  
~~\*\*\*reductase\*\*\*~~ (MTHFR) ~~\*\*\*gene\*\*\*~~ in patients with cerebral venous  
thrombosis (CVT). ~~\*\*\*Methods\*\*\*~~ -Forty-five patients with CVT and 90  
control subjects were studied. Plasma levels of homocysteine (fasting and  
after ~~\*\*\*methionine\*\*\*~~ load), folate, and vitamin B.sub.1.sub.2 were  
measured. Genotyping of the MTHFR ~~\*\*\*gene\*\*\*~~ was also performed. The  
estimated risk of CVT associated with hyperhomocysteinemia, low vitamin  
levels, and MTHFR mutation were ~~\*\*\*expressed\*\*\*~~ as odds ratio (OR)  
and its 95% CI (crude and after adjusting by other independent  
variables). Results-The adjusted OR for CVT associated with high (>90th  
percentile) fasting levels of homocysteine was 4.6 (1.6 to 12.8). The  
association between low plasma folate values (<10th percentile) and  
presence of CVT was 3.5 (1.2 to 10.0) after adjustment for confounding  
factors. There was a higher frequency of MTHFR mutation in patients with  
CVT (22% versus 10%), but it was not statistically significant (P=0.098).  
Patients with MTHFR mutation and low folate levels presented the highest  
homocysteine levels. Conclusions-High plasma concentrations of  
homocysteine and low plasma folate levels were associated with an  
increased risk of CVT in this population in which low socioeconomic  
conditions and deficient nutritional status may contribute to its

relatively high incidence.

L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2003:837302 CAPLUS

DOCUMENT NUMBER: ~~139:334001~~

TITLE: Methionine synthase genes and bacteria for  
L-methionine production

INVENTOR(S): Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna;  
Schroeder, Hartwig; Haefner, Stefan

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 304 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003087386	A2	20031023	WO 2003-EP4010	20030416
WO 2003087386	A3	20040408		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10217058	A1	20031127	DE 2002-10217058	20020417
CA 2481761	AA	20031023	CA 2003-2481761	20030416
AU 2003229691	A1	20031027	AU 2003-229691	20030416
EP 1497443	A2	20050119	EP 2003-722500	20030416
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005522218	T2	20050728	JP 2003-584324	20030416
CN 1653186	A	20050810	CN 2003-811344	20030416
PRIORITY APPLN. INFO.: DE 2002-10217058 A 20020417				
WO 2003-EP4010 W 20030416				
AB The invention relates to ***methods*** for I.- ***methionine***, by fermn., using bacteria, in which a nucleotide ***sequence*** that codes for a ***methionine*** synthase ( ***metF*** ) (sic) ***gene*** is ***expressed***.				

L7 ANSWER 8 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2003:213838 USPATFULL

TITLE: Nucleotide sequences that code for the rplK gene and  
methods of use thereof

INVENTOR(S): Wehmeier, Lutz, Frankfurt, GERMANY, FEDERAL REPUBLIC OF  
Tauch, Andreas, Bielefeld, GERMANY, FEDERAL REPUBLIC OF  
Puhler, Alfred, Bielefeld, GERMANY, FEDERAL REPUBLIC OF  
Kalinowski, Jorn, Bielefeld, GERMANY, FEDERAL REPUBLIC  
OF  
Mockel, Bettina, Bielefeld, GERMANY, FEDERAL REPUBLIC  
OF

NUMBER KIND DATE

PATENT INFORMATION: US 2003148476 A1 20030807  
APPLICATION INFO.: US 2002-302931 A1 20021125 (10)  
RELATED APPLN. INFO.: Division of Ser. No. US 2000-568023, filed on 10 May  
2000, PENDING  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: SMITH, GAMBRELL & RUSSELL, LLP, 1850 M STREET, N.W.,  
SUITE 800, WASHINGTON, DC, 20036  
NUMBER OF CLAIMS: 32  
EXEMPLARY CLAIM: 1



NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1132

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An isolated polynucleotide from coryneform bacteria containing a polynucleotide sequence selected from the group:

a) a polynucleotide that is at least 70% identical to a polynucleotide that codes for a polypeptide that contains the amino acid sequence of SEQ ID NO: 2,

b) a polynucleotide that codes for a polypeptide that contains an amino acid sequence that is at least 70% identical to the amino acid sequence of SEQ ID NO: 2,

c) a polynucleotide that is complementary to the polynucleotides of (a) or (b), and

d) a polynucleotide containing at least 15 successive bases of the polynucleotide sequence of (a), (b) or (c),

and methods of use thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 13 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2003-576610 [54] WPIDS

CROSS REFERENCE: 2000-466131 [40]; 2005-628838 [64]

DOC. NO. CPI: C2003-155724

TITLE: New substantially pure nucleic acid encoding a mammalian methionine synthase reductase polypeptide, useful for diagnosing, preventing or treating conditions associated with altered methionine synthase activity, e.g. cancer.

DERWENT CLASS: B04 B05 D16

INVENTOR(S): GRAVEL, R A; LECLERC, D; ROSENBLATT, D; ROZEN, R; WILSON, A

PATENT ASSIGNEE(S): (GRAV-I) GRAVEL R A; (LECL-I) LECLERC D; (ROSE-I) ROSENBLATT D; (ROZE-I) ROZEN R; (WILS-I) WILSON A

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2003082676	A1	20030501	(200354)		26

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2003082676	A1 Provisional	US 1998-71622P	19980116
	CIP of	US 1999-232028	19990115
		US 1999-371347	19990810

PRIORITY APPLN. INFO: US 1998-71622P 19980116; US 1999-232028 19990115; US 1999-371347 19990810

AN 2003-576610 [54] WPIDS

CR 2000-466131 [40]; 2005-628838 [64]

AB US2003082676 A UPAB: 20051006

NOVELTY - A substantially pure nucleic acid that encodes a mammalian methionine synthase reductase polypeptide, or that hybridizes at high stringency to a nucleic acid comprising a sequence of 3180 base pairs (S1) given in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) a non-human animal where one or both genetic alleles encoding the methionine synthase reductase polypeptide are mutated;
- (2) an antibody that specifically binds the above methionine synthase reductase polypeptide;
- (3) a method of detecting the presence of the above polypeptide;

(4) a method for detecting sequence variants for methionine synthase reductase in a mammal;

(5) methods of treating or preventing cancer, cardiovascular disease or neural tube defects in a subject;

(6) methods of screening for a compound that modulates methionine synthase reductase biological activity; and

(7) a method for detecting an increased risk of developing a neural tube defect in a mammalian embryo or fetus.

ACTIVITY - Cytostatic; Cardiant; Neuroprotective. No biological data given.

MECHANISM OF ACTION - Gene therapy.

USE - The nucleic acid is useful in diagnosing, preventing or treating conditions associated with altered methionine synthase activity, such as cancer, cardiovascular disease or neural tube defects, or in screening for a compound that modulates methionine synthase reductase biological activity.

Dwg.0/8

L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:107382 CAPLUS

DOCUMENT NUMBER: 136:149987

TITLE: The metF gene of *Corynebacterium glutamicum* encoding methylenetetrahydrofolate reductase and its use in increasing yields of L-methionine in fermentation

INVENTOR(S): Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus; Binder, Michael; Greissinger, Dieter; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010206	A2	20020207	WO 2001-EP8224	20010717
WO 2002010206	A3	20020502		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10109686	A1	20020221	DE 2001-10109686	20010228
EP 1307477	A2	20030507	EP 2001-967192	20010717
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2002049305	A1	20020425	US 2001-919935	20010802
PRIORITY APPLN. INFO.:			DE 2000-10053942	A 20000802
			DE 2001-10109686	A 20010228
			US 2001-294279P	P 20010531
			WO 2001-EP8224	W 20010717

AB The metF gene of *Corynebacterium glutamicum* ATCC13032 encoding methylene tetrahydrofolate reductase is cloned for use in increasing the efficiency of fermn. of L-methionine by coryneform bacteria. The expression vectors contg. metF gene and metA and metY gene are constructed. Methods and culture media for fermentative prep. of L-methionine with recombinant bacterial strains transformed with these vectors are also provided. Transformation of \*\*\*gene\*\*\* \*\*\*metF\*\*\* \*\*\*expression\*\*\* vector pCREmetF into a *Corynebacterium* host increase the L-\*\*\*methionine\*\*\* \*\*\*prodn\*\*\*. yield from 1.4 g \*\*\*methionine\*\*\* /L at 10.3 OD660 to 7.3 g \*\*\*methionine\*\*\* /L at 11.2 OD660. The fermentatively prep. L-methionine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

L7 ANSWER 11 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:92779 USPATFULL

TITLE: Nucleotide sequences which code for the metF gene

INVENTOR(S): Bathe, Brigitte, Salzkotten, GERMANY, FEDERAL REPUBLIC

OF

Moeckel, Bettina, Duesseldorf, GERMANY, FEDERAL

REPUBLIC OF

Pfefferle, Walter, Halle, GERMANY, FEDERAL REPUBLIC OF

Huthmacher, Klaus, Gelnhausen, GERMANY, FEDERAL

REPUBLIC OF

Binder, Michael, Steinhagen, GERMANY, FEDERAL REPUBLIC

OF

Greissinger, Dieter, Niddatal, GERMANY, FEDERAL

REPUBLIC OF

Thierbach, Georg, Bielefeld, GERMANY, FEDERAL REPUBLIC

OF

PATENT ASSIGNEE(S): DEGUSSA AG, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF  
(non-U.S. corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 2002049305 A1 20020425

APPLICATION INFO.: US 2001-919935 A1 20010802 (9)

NUMBER DATE

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PRIORITY INFORMATION: DE 2000-10053942 20000802

DE 2001-109686 20010228

US 2001-294279P 20010531 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH  
FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA,  
22202

NUMBER OF CLAIMS: 33

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1079

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An isolated polynucleotide comprising a polynucleotide sequence selected  
from the group consisting of

a) polynucleotide which is at least 70% identical to a polynucleotide  
that codes for a polypeptide which comprises the amino acid sequence of  
SEQ ID No. 2,

b) polynucleotide which codes for a polypeptide that comprises an amino  
acid sequence which is at least 70% identical to the amino acid sequence  
of SEQ ID No. 2,

c) polynucleotide which is complementary to the polynucleotides of a) or  
b), and

d) polynucleotide comprising at least 15 successive nucleotides of the  
polynucleotide sequence of a), b) or c),

and processes for the fermentative preparation of L-amino acids using  
coryneform bacteria in which at least the metF gene is present in  
enhanced form, and the use of the polynucleotide sequences as  
hybridization probes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:634531 CAPLUS

DOCUMENT NUMBER: 136:258038

TITLE: Analysis of the chromosome sequence of the legume  
symbiont Sinorhizobium meliloti strain 1021

AUTHOR(S): Capela, Delphine; Barloy-Hubler, Frederique; Gouzy,  
Jerome; Bothe, Gordana; Ampe, Frederic; Batut,

Jacques; Boistard, Pierre; Becker, Anke; Boutry, Marc;  
Cadieu, Edouard; Dreano, Stephane; Gloux, Stephanie;  
Godrie, Therese; Goffeau, Andre; Kahn, Daniel; Kiss,  
Erno; Lelaure, Valerie; Masuy, David; Pohl, Thomas;  
Portetel, Daniel; Puhler, Alfred; Purnelle,  
Benedicte; Ramsperger, Ulf; Renard, Clotilde;  
Thebault, Patricia; Vandenbol, Micheline; Weidner,  
Stefan; Galibert, Francis

CORPORATE SOURCE: Laboratoire de Biologie Moleculaire des Relations  
Plantes-Microorganismes, Unite Mixte de Recherche  
(UMR) 215 Centre National de la Recherche Scientifique  
(CNRS), Institut National de la Recherche Agronomique,  
Chemin, Tolosan, F-31326, Fr.

SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America (2001), 98(17), 9877-9882  
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Sinorhizobium meliloti is an .alpha.-proteobacterium that forms  
agronomically important N2-fixing root nodules in legumes. We report here  
the complete sequence of the largest constituent of its genome, a 62.7%  
GC-rich 3654,135-bp circular chromosome. Annotation allowed assignment of  
a function to 59% of the 3341 predicted protein-coding ORFs, the rest  
exhibiting partial, weak, or no similarity with any known sequence.  
Unexpectedly, the level of reiteration within this replicon is low, with  
only two genes duplicated with more than 90% nucleotide sequence identity,  
transposon elements accounting for 2.2% of the sequence, and a few hundred  
short repeated palindromic motifs (RIME1, RIME2, and C) widespread over  
the chromosome. Three regions with a significantly lower GC content are  
most likely of external origin. Detailed annotation revealed that this  
replicon contains all housekeeping genes except two essential genes that  
are located on pSymB. Amino acid/peptide transport and degradn. and sugar  
metab. appear as two major features of the S. meliloti chromosome. The  
presence in this replicon of a large no. of nucleotide cyclases with a  
peculiar structure, as well as of genes homologous to virulence  
determinants of animal and plant pathogens, opens perspectives in the  
study of this bacterium both as a free-living soil microorganism and as a  
plant symbiont.

REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 13 OF 13 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
STN DUPLICATE 4

ACCESSION NUMBER: 1985:331320 SCISEARCH

THE GENUINE ARTICLE: AKB79

TITLE: REGULATION OF \*\*\*METHIONINE\*\*\* SYNTHESIS IN  
ESCHERICHIA-COLI - EFFECT OF METJ \*\*\*GENE\*\*\* -  
\*\*\*PRODUCT\*\*\* AND S-ADENOSYLMETHIONINE ON THE  
\*\*\*EXPRESSION\*\*\* OF THE \*\*\*METF\*\*\* \*\*\*GENE\*\*\*

AUTHOR: SHOEMAN R (Reprint); REDFIELD B; COLEMAN T; GREENE R C;  
SMITH A A; BROTH N; WEISSBACH H

CORPORATE SOURCE: ROCHE INST MOLEC BIOL, ROCHE RES CTR, NUTLEY, NJ 07110  
(Reprint); VET ADM HOSP, DURHAM, NC 27705

COUNTRY OF AUTHOR: USA

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE  
UNITED STATES OF AMERICA, (1985) Vol. 82, No. 11, pp.  
3601-3605.  
ISSN: 0027-8424.

PUBLISHER: NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON,  
DC 20418.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE

LANGUAGE: English

REFERENCE COUNT: 29

ENTRY DATE: Entered STN: 1994

Last Updated on STN: 1994

=> d his

L1 QUE ((METHYLENE (W) TETRAHYDROFOLATE (W) REDUCTASE) OR METF)

L2 2386 S L1

L3 1105 S (GENE OR SEQUENCE OR POLYNUCLEOTIDE) (S)L2

L4 120 S EXPRESS?(S)L3

L5 51 S ((L-AMINO (W) ACID) OR (AMINO (W) ACID) OR METHIONINE)(S)L4

L6 19 S (METHOD? OR PROCESS? OR PRODUC?)(S)L5

L7 13 DUP REM L6 (6 DUPLICATES REMOVED)

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